

SYSTEM AND METHOD FOR REMULTIPLEXING
OF A FILTERED TRANSPORT STREAM WITH
NEW CONTENT IN REAL-TIME

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ABSTRACT OF THE DISCLOSURE

In a transport stream demultiplexor device receiving an input transport stream comprising a plurality of data packets and including a filter device for removing one or more predetermined packets to form a partial transport stream, a real-time data remultiplexing system and method comprising: a device for detecting presence of a gap in the partial transport stream where predetermined packets have been removed and generating a signal indicating the gap location; a device for directly retrieving packet data having new content from a memory storage device, and storing the retrieved packet data into a staging buffer device for queued storage prior to insertion into the partial transport stream; and, a multiplexor device responsive to the flag for pulling a queued data packet from the staging buffer device and inserting the pulled packet into the gap as the partial transport stream is being transported on a real-time basis. Advantageously, the retrieving device enables concurrent re-filling of the staging buffer as queued data is pulled from the buffer so as to enable remultiplexing of high bandwidth/high data content streams.